

CURRICULUM VITAE  
THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

JANE E. BENSON, M.D.  
Last updated: 08-19-02

DEMOGRAPHIC INFORMATION:

**Current Appointments:**

Assistant Professor, Radiology and Pediatrics, The Johns Hopkins University School of Medicine Baltimore, Maryland (on leave of absence after 6/30/02)	7/1/90 - Present
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Staff Radiologist The Johns Hopkins Hospital Division of Pediatric Imaging Baltimore, Maryland	7/1/90 – 6/30/02
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Instructor School of Medical Sonography The Johns Hopkins Hospital Baltimore, Maryland	10/1/91- Present
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Medical Director School of Radiologic Technology The Johns Hopkins Hospital Baltimore, Maryland	7/1/94 - Present
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**Personal Data:**

Department of Pediatric Imaging  
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**Education and Training:**

B.A.	Goucher College Towson, Maryland Biology
M.D.	The Johns Hopkins University School of Medicine Baltimore, Maryland
Rainbow Babies and Children's Hospital Cleveland, Ohio	Internship Pediatrics
University Hospitals of Cleveland	Residency Pathology
University Hospitals of Cleveland	Residency Radiology

**Professional Experience:**

Assistant Professor of Radiology Case Western Reserve University School of Medicine Cleveland, Ohio	07/1/86 - 6/1/90
Assistant Professor of Radiology The Johns Hopkins University School of Medicine	7/1/90 - Present
Assistant Professor of Pediatrics The Johns Hopkins University School of Medicine	7/1/91-Present
Acting Director Division of Pediatric Imaging The Johns Hopkins Hospital Baltimore, Maryland	7/1/94 – 7-1-00

## RESEARCH ACTIVITIES:

### Publications:

#### Peer-reviewed scientific articles:

Han JS, Kaufman B, El Yousef SJ, Benson JE, Bonstelle CT, Alfidi RJ, Haaga JR, Yeung HN, Huss RG. NMR Imaging of the Spine. American Journal of Neuroradiology 1983;4:1151-1159.

Han JS, Kaufman B, Alfidi RJ, Yeung HN, Benson JE, Haaga JR, El Yousef SJ, Clampitt ME, Bonstelle CT, Huss R. Head Trauma Evaluated by Magnetic Resonance and Computed Tomography: A Comparison. Radiology 1984;150 (1):71-77.

Motta AO, Han JS, Levine M, Benson JE. Primary Amyloid Tumor of the Lacrimal Gland: CT Findings. Journal of Computer Assisted Tomography 1983;7(6):1079-1080.

Han JS, Bonstelle CT, Kaufman B, Benson JE, Alfidi RJ, Clampitt ME, Van Dyke C, Huss RG. Magnetic Resonance Imaging in the Evaluation of the Brainstem. Radiology 1984;150:705-712.

Han JS, Benson JE, Bonstelle CT, Alfidi RJ, Kaufman B, Levine M. Magnetic Resonance of the Orbit: A Preliminary Experience. Radiology 1984;150:755-759.

Benson JE, Goske M, Han JS, Brodkey JS, Yoon YS. Primary Osteogenic Sarcoma of the Calvarium. American Journal of Neuroradiology 1984;5:810-813.

Han JS, Huss RG, Benson JE, Kaufman B, Alfidi RJ, Bonstelle CT. Magnetic Resonance Imaging of the Base of the Skull. Journal of Computer Assisted Tomography 1984;8(5):944-952.

Kaplan B, Benson JE, Rothstein F, Dahms B, Halpin T. Lymphonodular Hyperplasia of the Colon as a Pathologic Finding in Children with Lower GI Bleeding. Journal of Pediatric Gastroenterology and Nutrition 1984;3:704-708.

Han JS, and Benson JE. NMR of the Spine. Radiologic Clinics of North America, 1984;22:(4)805-827.

Benson JE, Han JS, ReKate HL, Kaufman B, Alfidi RJ, Yoon YS. Demonstration of Diastematomyelia and Associated Abnormalities of MRI. American Journal of Neuroradiology 1985;6:215-219.

Han JS, Benson JE, Kaufman B, ReKate HL, Alfidi RJ, Huss RG, Sacco D, Yoon YS, Morrisison SC. MR Imaging of Pediatric Cerebral Abnormalities. Journal of Computer Assisted Tomography 1985; 9(1):103-114.

Hueftle MG, Han JS, Kaufman B, Benson JE. MR Imaging of Brain Stem Gliomas. Journal of Computer Assisted Tomography 1985; 9(2):263-267.

Benson JE, Olsen MN, Fletcher BD. A Spectrum of Bronchopulmonary Anomalies Associated with Tracheoesophageal Malformations. Pediatric Radiology 1985;15(6):377-380.

Smith AS, Benson JE, Blaser SI, Mizushima A, Tarr RW, Bellon EM. Diagnosis of Ruptured Intracranial Dermoid Cyst: Value of MR over CT. *American Journal of Roentgenology* 1991;156(4):807-812.

Taylor GA, Benson JE, Radiology, Surgery and The Pediatric Chest. *Radiologic Clinics of North America* 1993;31:677-692.

Gisel EG, Applegate-Ferrante T, Benson JE, Bosma JF. Effect of Oral Sensorimotor Treatment on Measures of Growth, Eating Efficiency and Aspiration in the Dysphagic Child with Cerebral Palsy. *Developmental Medicine & Child Neurology* 1995;37(6):528-543.

Gisel EG, Applegate-Ferrante T, Benson JE, Bosma JF. Oral-Motor Skills Following Sensorimotor Therapy in Two Groups of Moderately Dysphagic Children with Cerebral Palsy: Aspiration vs Nonaspiration. *Dysphagia* 1996;11:59-71.

Cadeddu JA, Benson JE, Silver RI, Lakshmanan Y, Jeffs RD, Gearhart JP. Spinal Abnormalities in Classic Bladder Exstrophy. *British Journal of Urology* 1997;79:975-978.

Trinh TD, Benson JE. Fluoroscopic Diagnosis of Complications after Nissen Antireflux Fundoplication in Children. *AJR* 1997;169:1023-1028.

Kocis KC, Radell PJ, Sternberger WI, Benson JE, Traystman RJ, Nichols DG. Ultrasound Evaluation of Piglet Diaphragm Function Before and After Fatigue. *Journal of Applied Physiology* 1997;83:1654-1659.

Benson J, Strauch E. Retropsoas Hernia as a Cause of Chronic Abdominal Pain: CT Diagnosis. *Pediatric Radiology* 1998;28:312-314.

Choo-Kang L, Benson J, Fry T, Schwarz K. Pneumatosis Cystoides Intestinalis with Labial Crepitus in an Infant with Acute Lymphoblastic Leukemia. *Journal of Pediatric Gastroenterology and Nutrition* 1999;28:442-445.

Lindley AA, Benson JE, Grimes C, Cole TM III, Herman AA. The Relationship in Neonates Between Clinically Measured Head Circumference and Brain Volume Estimated from Head CT-scans. *Early Human Development* 1999;56:17-29.

Baker LA, Sigman D, Mathews R, Benson J, Docimo S. An Analysis of Clinical Outcomes Using Color Doppler Testicular Ultrasound for Testicular Torsion. *Pediatrics* 2000;105:604-607.

Cabana MD, Benson JE, Smith AE, Baggett HC, Northington FJ. Delayed Presentation of Pulmonary Interstitial Emphysema. *Clinical Pediatrics* 2000;39(5): 299-302.

Morrison WE, Benson J, Fisher Q. Using a lightwand device to assess endotracheal tube position in the pediatric intensive care unit. *Critical Care Medicine* 2001;29(12 Suppl):A40

Benson JE, Bishop MR, Cohen HL. Intracranial Neurosonography: An Update. *Ultrasound Quarterly*, 18(2):89-114,2002

Frazier JL, Wang PP, Patel SH, Benson JE, Cameron DE, Hoon AH, Avellino AM. Unusual Migration of a Ventriculoperitoneal Shunt into the Heart. Accepted for publication. *Neurosurgery*, September, 2002.

Zorc J, Krugman J, Benson JE. Radiographic Evaluation for Suspected CSF Shunt Obstruction. Accepted for publication. Pediatric Emergency Care, October 2002.

Non-peer reviewed articles:

Cabana MD, Benson J, Johnson K. "Ghostbusters". Contemporary Pediatrics 1996;166:634.

Book chapters, monographs:

Benson JE and Han JS. Examination of the Spine. In Radiology: Diagnosis/Imaging/Intervention. Taveras JM and Ferrucci JT (eds.) J.B. Lippincott Co., Philadelphia, PA 1986, Chapter 102.

Benson JE, Lefton-Greif M. "Videofluoroscopy of Swallowing in Pediatric Patients: A Component of the Total Feeding Evaluation" in Pediatric Feeding and Swallowing Disorders: Pathophysiology, Diagnosis and Treatment. Tuchman D and Walter R, eds., Singular Publishing Group, San Diego CA, 1993.

Benson, JE (as a member of the Radiology Working Group of the WHO Pneumonia Vaccine Trial Investigators' Group). "Standardization of Interpretation of Chest Radiographs for the Diagnosis of Pneumonia in Children." World Health Organization, Geneva, 2001.

**Extramural Sponsorship:**

---Foundation to study the feasibility of nipple feeding in older handicapped children, Unsuccessful recruitment in this country, but European colleagues are still interested. Grant terminated September 1, 1996 with final purchases of nipples; remaining money will be used to purchase a new chair for clinical swallow studies. Study will continue as long as there is clinical interest.

NIH contract to measure brain volumes in normal neonates using CT images obtained clinically.

--,---, Benson J. "Epidemiology and anthropometric appropriateness of cervical spine collars in children". 1 year.

**EDUCATIONAL ACTIVITIES:**

**Teaching:**

Classroom instruction:

Multiple various lectures to medical students, residents and nursing students throughout the year. (SEE Faculty Report for details).

Thesis Advisor:

Proprietary information deleted.

CME instruction:

"MRI of Pediatric CNS and Body", Pediatric Grand Rounds, MetroHealth Medical Center, May 29, 1989.

MRI of the Pediatric Body, MRI Review Course, Department of Radiology, MetroHealth Medical Center, October 20-22, 1989 and May 17-19, 1990.

Radiology of Upper Extremity Trauma, Orthopedics Department CME Seminar, MetroHealth Medical Center, April 20, 1990.

"Pediatric Dysphagia" workshop with M Lefton-Greif, presented as part of "Dysphagia: Basic Concepts and Practical Approaches", May 3, 1991, organized by The Johns Hopkins Swallowing Center.

"Pediatric Dysphagia" panel discussion and case presentation with SS Kramer and DN Tuchman, at Fourth Multidisciplinary Symposium on Dysphagia, April 22, 1992, organized by The Johns Hopkins Swallowing Center.

"Videofluoroscopy in Pediatric Dysphagia" Pediatric Grand Rounds, St. Agnes Hospital, Baltimore, February 19, 1993.

"Special Problems in Infants and Children", panel discussion with JF Bosma, R Babbitt, C Hannig, M Herzog, M Lefton-Greif, SA McColley, presented as part of "Problems in the Diagnosis and Management of the Dysphagic Patient: TransAtlantic Perspectives" March 29-30, 1993, organized by The Johns Hopkins Swallowing Center.

"Image Manipulation and Videofluoroscopy in Pediatric Dysphagia" Radiology Department Colloquium, April 13, 1993.

"Radiologic Evaluation of Urinary Tract Infection" presented at Pediatric Trends, organized by the Department of Pediatrics, April 20, 1993.

"Videofluoroscopic Examination of the Dysphagic Patient with Cerebral Palsy" with JF Bosma and EK Gisel, 2-hour workshop presented at American Academy of Cerebral Palsy and Developmental Medicine meeting, October 8, 1993.

Workshop in Emergency Radiology, presented twice yearly at the course in Advanced Pediatric Life Support, organized by the Division of Pediatric Intensive Care, Department of Anesthesiology and Critical Care Medicine, The Johns Hopkins Hospital. 1991- present.

Moderated the workshop in Special Pediatric Problems at the 5th Multidisciplinary Symposium on Dysphagia, Johns Hopkins Swallowing Center, Baltimore, MD., April 15, 1994.

"Sonography of the Neonatal Head" given at the 23rd Annual Conference of the Johns Hopkins Division of Diagnostic Ultrasound, Baltimore, MD, September 10, 1994.

"Video Fluoroscopy of Swallow in Children with Cerebral Palsy"

2 hour workshop with J Bosma at meeting of the American Academy of Cerebral Palsy and Developmental Medicine, New Orleans LA, September 30, 1994.

"Assessment and Classification of Eating Impairments in Children with Cerebral Palsy: Integration of Clinical and Video Fluoroscopic Observations." 2 hour workshop with E.Gisel and J Bosma presented at American Academy of Cerebral Palsy and Developmental Medicine, Philadelphia, PA, September 29, 1995.

"Pediatric Dysphagia". Benson J and Lefton-Grief M. Seminar presentation as invited faculty at Johns Hopkins Dysphagia Symposium, May 31, 1996 Baltimore, MD.

"Imaging Procedures." Pediatrics For The Practitioner Update '96, September 26-27, 1996, Johns Hopkins Medical Institutions.

"Normal Infant Swallow". Seventh Multidisciplinary Symposium on Dysphagia, March 6, 1998, Johns Hopkins Medical Institutions.

Pediatric Radiology Grand Rounds. Howard County General Hospital, Department of Pediatrics. Monthly, 1999-present.

## **CLINICAL ACTIVITIES:**

### **Certification:**

LICENSURE:

Maryland State Board

BOARD CERTIFICATION:

American Board of Radiology  
Diagnostic Radiology

Certificate of Added  
Qualification in Pediatric  
Radiology

## **ORGANIZATIONAL ACTIVITIES:**

### **Professional societies:**

Society for Pediatric Radiology 1994-present

### **Hopkins organizations :**

Medical School Council – Member-at-large 2000-2001 academic year

Gold Book Revision Committee – 2001  
 Senior Physician Incident Review Committee -- 1995-2002  
 Pediatric Trauma QA Committee – 1996-2002

## **RECOGNITION:**

### **Invited talks, panels:**

NMR Imaging of the spine. Han JS, Kaufman B, El Yousef SJ, Benson JE, Bonstelle CT, Alfidi RJ, Haaga JR, Yeung HN, Huss RG. Annual Meeting of the American Society of Neuroradiological Radiology. San Francisco, California, June, 1983.

NMR Scanning of Spinal Abnormalities. Han JS, El Yousef SJ, Benson JE, Bonstelle CT, Alfidi RJ, Haaga JR, Yeung JN, Huss RG. Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November, 1983.

NMR Imaging in Head Trauma. Han JS, Kaufman B, Alfidi RJ, Yeung HN, Benson JE, Huss R. Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November, 1983.

Brainstem Evaluation with NMR. Han JS, Bonstelle CT, Kaufman B, Benson JE, Alfidi RJ, Huss RG. Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November, 1983.

NMR Imaging of the Orbit. Bonstelle CT, Han JS, Kaufman B, Benson JE, Levin M, Alfidi RJ, Huss RG. Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November, 1983.

NMR Imaging of the Base of the Skull. Benson JE, Huss RG, Kaufman B, Alfidi RJ, Bonstelle CT. Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November, 1983.

NMR in Evaluating Pituitary Tumors. Kaufman B, Arafah BM, Brodkey JS, Pearson OH, Bonstelle CT, Han JS, Benson JE, Alfidi RJ. Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November, 1983.

NMR Imaging of the Abnormal Pediatric Brain. Benson JE, Han J, Kaufman B, Weissman B, Bonstelle CT. Annual Meeting of the American Roentgen Ray Society, Las Vegas, Nevada, April 8-13, 1984.

Demonstration of Diastematomyelia and Associated Abnormalities on MRI. Benson JE, Han J. Annual Meeting of the American Society of Neuroradiological Radiology. Boston, Massachusetts, June 2-7, 1984.

Presentation and Diagnosis of Esophageal Perforation in Children. Benson JE, Taylor GT. European Congress of Radiology, Vienna, Austria, September 15-20, 1991.

Imaging Correlates of Anterior Innominate Osteotomy for Closure of Bladder Exstrophy. Benson JE, Gearhart JP, Fishman EK, Jeffs RD. American Academy of Pediatrics, New Orleans, Louisiana, October 25-31, 1991.

"Evaluation of Dysphagia in Handicapped Children" Fellows' Lecture Series, Kennedy-Krieger Institute, February 22, 1993.

"Examining Swallow: Why and How?" Grand Rounds presentation as invited speaker, Great Ormond Street Hospital for Children, June 10, 1996, London, England.

"Videofluoroscopic Procedure and Interpretation" invited speaker at Radiology Department Rounds, Great Ormond Street Hospital for Children, June 11, 1996, London, England.

"Radiological Evaluation of Dysphagia in Children" invited workshop leader, 3 hour workshop for speech pathologists, June 12, 1996, The Wolfson Centre, Institute of Child Health, London, England.

"Recent Advances in Swallowing Research" -symposium keynote address, Symposium on Dysphagia in Cerebral Palsy, June 13-14, 1996, Institute of Child Health, London, England.

"Pharyngeal Swallow"-Instructional lecture, Symposium on Dysphagia in Cerebral Palsy, June 13-14 1996, Institute of Child Health, London, England.

"Videofluoroscopic Patterns of Swallow in Normal and Dysphagic Infants and Children." Conference on Congenital and Acquired Dysphagia, August 30-31, 1996, Munich, Germany (invited faculty).

Moderator, "New Frontiers in Pediatric Brain Imaging", Pediatric Trends, April 10, 2000, The Johns Hopkins Hospital, Baltimore, MD.

## **RECOGNITION:**

### Scientific Presentations:

"Persistence of Infantile Suckle Patterns in Children with Cerebral Palsy" presented at the meeting of the Dysphagia Research Society, Tysons Corners, VA, October 15, 1994.

"Distinctive Rhythmic Tongue Gestures Elicited by Pharyngeal Swallow in a Young Boy" with J Bosma, S. Gebara, H. Walker, C. McDonald, presented at the Dysphagia Research Society, Tysons Corners, VA, October 27, 1995.

### Scientific Exhibits:

Technetium 99m Pyrophosphate Aerosol Ventilation/Technetium 99m MAA Perfusion Ratio Images: An Aid to Interpretation of Lung Scintigrams. Miron SD, Cohen AM, Marmolya GA, Benson JE, and Bellon EM. Chest section - RSNA, 1988.

Complications of the Fundoplication Surgery, Trinh T. and Benson J. Scientific exhibit at Society for Pediatric Radiology biennial meeting, May 25-30, 1996, Boston, MA

Using a lightwand device to assess endotracheal tube position in the pediatric intensive care unit. Morrison WE, Benson J, Fisher Q. Poster presentation at 31<sup>st</sup> Critical Care Congress, San Diego, January 27, 2002.

Invited Reviews:

Pediatric Imaging by Cecilie Godderidge. Philadelphia, Sanders Publishing, 285 pp, 1995. Reviewed by Benson, JE, American Journal of Roentgenology 1995;165:1232.

Manual of Neonatal Emergency X-ray Interpretation by PWD Meerstadt and Catherine Gyll. Philadelphia: Saunders, 301 pp. Reviewed by Benson JE. American Journal of Roentgenology 1996;166:634.